

## MICE Tracker Update

Tracker test at KEK

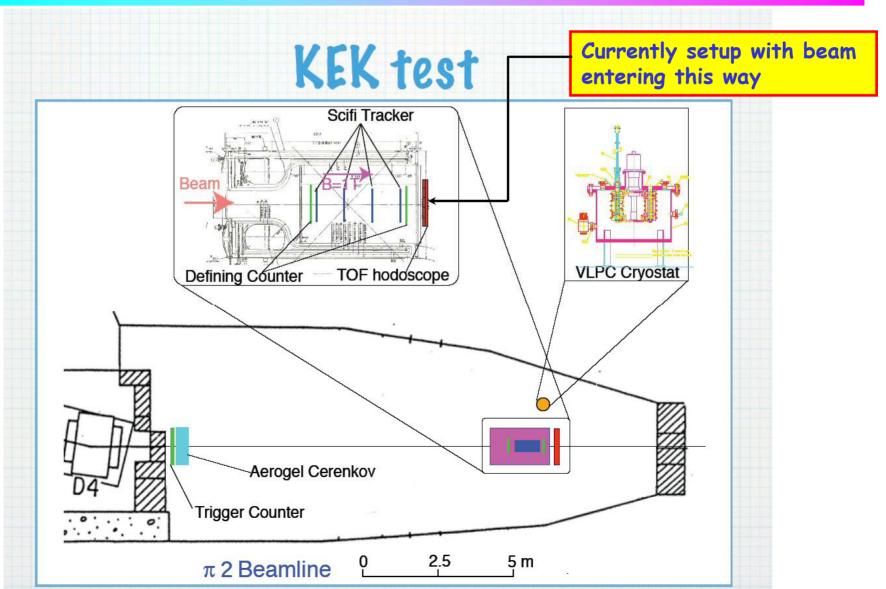
# fact Muon Collaboration

### Overview

- We are setup to test the 4 station tracker prototype in the KEK  $\pi 2$  beam line
- The Ingredients of the Test represent a reasonable approximation to MICE Phase I. They include:
  - 4 station tracker
  - VLPC readout system
    - · 2 VLPC cassettes (2048 ch)
    - · Cryostat with cryo-cooler
    - Readout electronics
    - VME/Linux based DAQ
  - ◆ TOF
  - Cerenkov
  - Beam Counters



### KEK $\pi$ 2 Beam Line

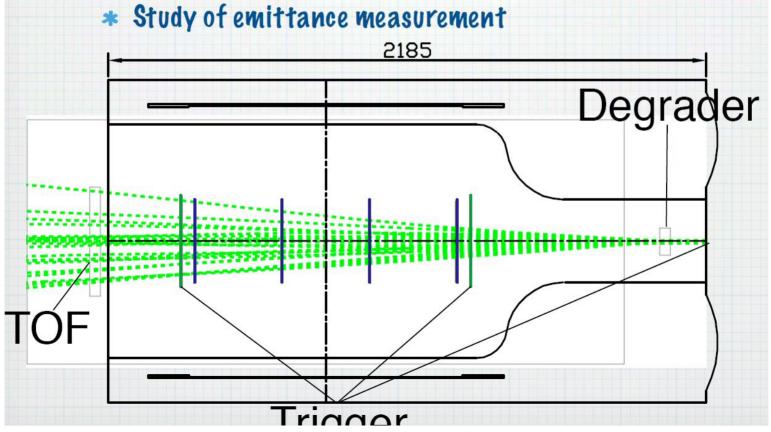




### **Emittance Measurment**



Will attempt to get data of this type during the current run





## Tracker

• Naked 4 Station prototype



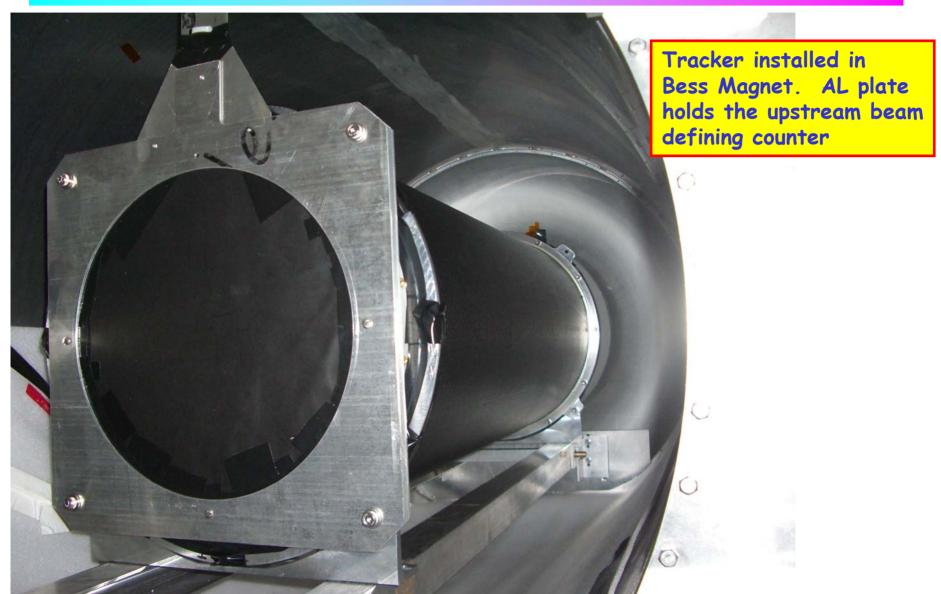
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### Test Status

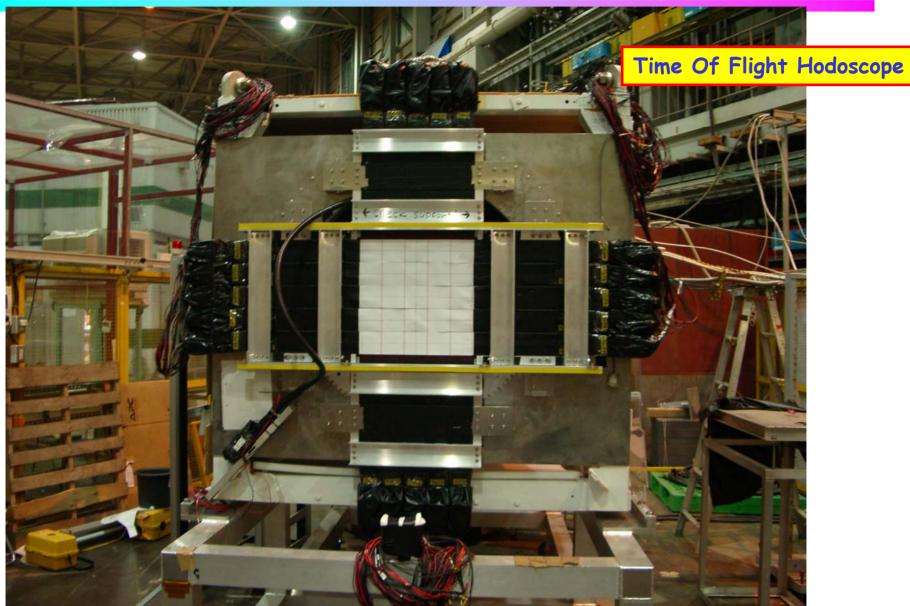
- Currently all components are installed in the line
- VLPC System is in place and cold
- AFE II boards are installed and all 4 have been tested successfully
- Calibrating Beam Counter, TOF, and Cerenkov PMTs
- Bess Magnetic is cold and has been energized
  - Fringe field map has been made
  - One problem discovered Turbo pump for VLPC cryostat had to be moved - FF too high.
- Calibrating VLPCs
- Testing DAQ/Readout
- Setting up trigger timing



## Slide Show













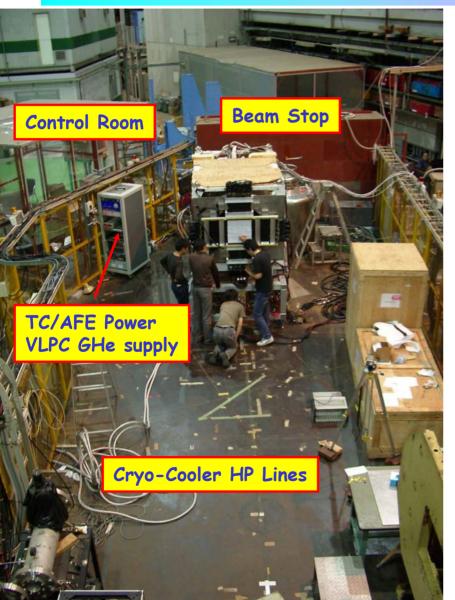








## Overall Experiment Layout



#### Run Plan

- B=0 Straight on
- ◆ 15° B=0
- 15° B on (1 T)
- Rotate 180°
- Install 150 mm Defining
  Counter
- Install diffuser (20 mm Pb)
- Run straight-on with B=0
- Run with B on
- 20 Shifts available



## Don't Ask

